

Winlink and RMS Express EMCOMM Capabilities

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Laura AB7BB




Overview

- What is Winlink?
- What Digital Modes Does Winlink Use?
- What is RMS Express?
- Together What Can They Do For EMCOMM?



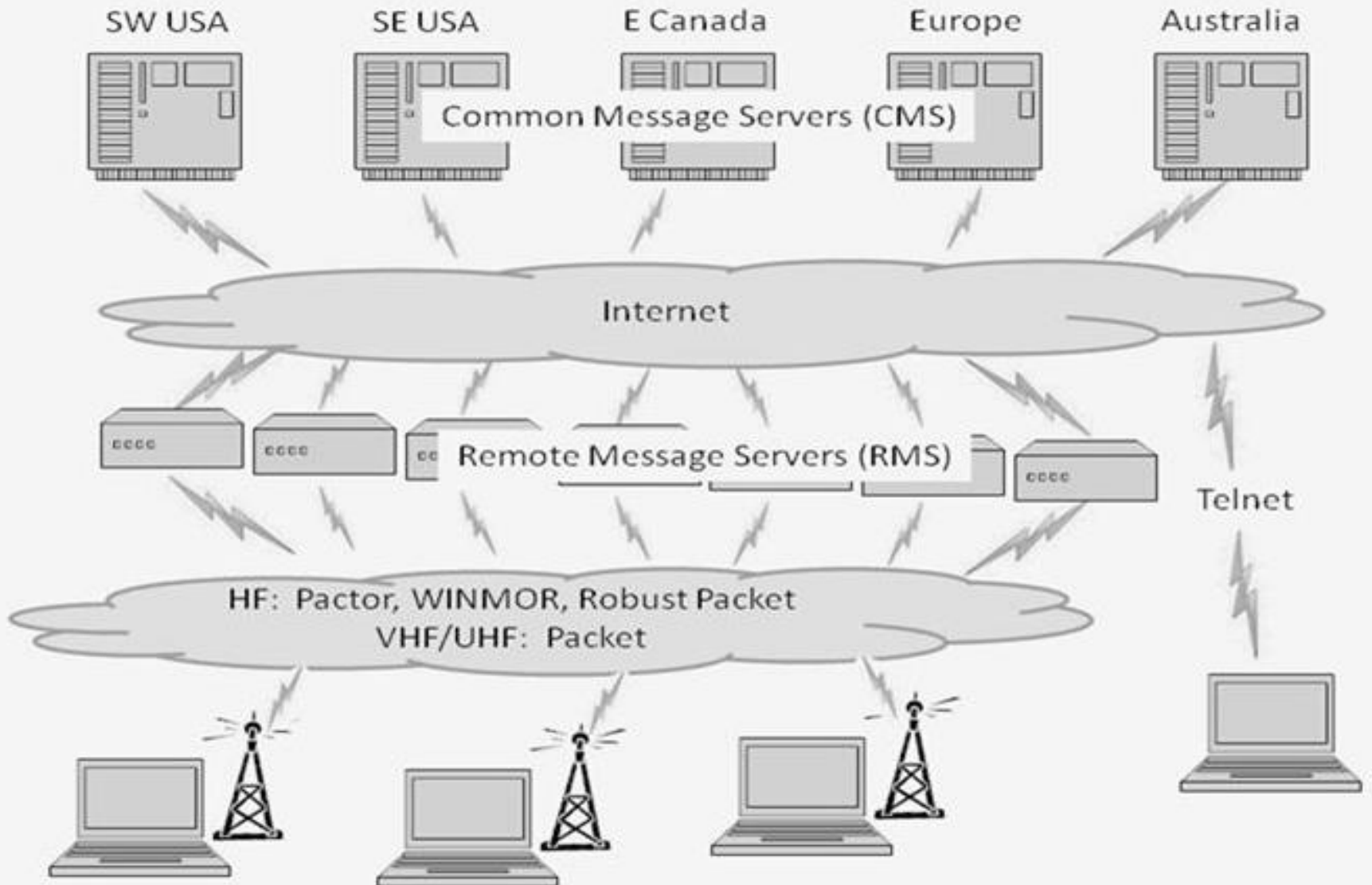
Winlink Capabilities

- Email
 - Internet (Gmail, Hotmail, AOL, etc.)
 - Radio (hamcall@winlink.org)
 - Cellphone Messaging
 - Bulletin Catalog
 - RMS Station/Frequency Updates
 - Weather (Maps, Satellite Pics, Text)
 - Other Services
 - Position Reporting
- 

Original Winlink User



Winlink Network



Winlink Traffic

- ~60,000 Messages Per Month Average
- +10,000 For US Landfall Hurricane
- Average HF Message Length 4.2 Kbytes
- ~165 Mbytes/Month Average (HF)
- Maximum Seen 150,000 Msgs/Month



Winlink Modes

- Telnet (Internet, LAN, MESH, D-Star...)
- Packet: ARQ, Single Speed (1.2/9.6 KB)
- Pactor: (ARQ+FEC) Multiple Speed
Hardware TNC
- *Winmor: (ARQ+FEC) Multiple Speed
Soundcard
- *ARDOP: (ARQ+FEC) Multiple Speed
Soundcard (Future)

Winlink Pactor Stations

The screenshot displays a web browser window with the address bar showing <http://www.winlink.org/>. The browser's menu bar includes File, Edit, View, Favorites, Tools, and Help. The address bar also contains several tabs: "Live System Inf...", "Ionospheric Physic...", "NGDC/STP - Ionos...", and "Michigan Football ...".

The main content of the browser is a map of North America, including the United States, Canada, and Mexico. The map is overlaid with numerous green location pins, representing Winlink Pactor stations. These pins are distributed across the continent, with a high concentration in the eastern United States and the Great Lakes region. Other notable locations include Seattle, San Francisco, Los Angeles, San Diego, and Mexico City. The map also shows state and provincial boundaries, major cities, and geographical features like the Gulf of California and the Gulf of Mexico.

At the bottom left of the browser window, the system tray shows the time as 12:58 PM and the date as 9/30/2015. The Windows taskbar is visible on the left side of the screen, showing icons for various applications and the Start button.

Winlink Winmor Stations

The screenshot displays a web browser window with the following elements:

- Address Bar:** <http://www.winlink.org/>
- Browser Tabs:** Live System Inf..., Ionospheric Physic..., NGDC/STP - Ionos..., Michigan Football ...
- Menu Bar:** File, Edit, View, Favorites, Tools, Help
- Toolbar:** Convert, Select
- Map:** A map of North America showing the United States and Mexico. Numerous green location pins are scattered across the map, representing Winlink Winmor stations. Major cities like Seattle, San Francisco, Los Angeles, San Diego, Houston, and New York are labeled. State and provincial names are also visible.
- Taskbar:** Icons for Internet Explorer, Outlook, PowerPoint, and a checkered icon.
- System Tray:** Time: 1:00 PM, Date: 9/30/2015

Winlink Packet Stations

The image is a screenshot of a web browser displaying a map of the United States and Mexico. The browser's address bar shows the URL <http://www.winlink.org/>. The browser's menu bar includes File, Edit, View, Favorites, Tools, and Help. The browser's toolbar shows a search icon, a refresh icon, and a home icon. The browser's taskbar shows several open tabs: "Live System Inf...", "Ionospheric Physic...", "NGDC/STP - Ionos...", and "Michigan Football ...". The browser's status bar shows the date and time: "1:01 PM 9/30/2015".

The map displays numerous green location pins representing Winlink Packet Stations. The pins are distributed across the United States, with a high concentration in the western and central regions. The map also shows state and provincial boundaries and names, including British Columbia, Saskatchewan, Ontario, Quebec, New Brunswick, Nova Scotia, and Puerto Rico. Major cities like San Francisco, Los Angeles, San Diego, Las Vegas, Houston, and New York are labeled. The Gulf of California and the Gulf of Mexico are also visible.

RMS Express

Client Software



RMS Express Features

- Message Basics
- Session Modes
- Attachments
- *Read Receipt
- *Message Download Preview
- *Hybrid Network
- *Tactical Addresses
- SMS/MMS Messaging
- Peer-To-Peer (P2P) Messages

RMS Express Main Form

RMS Express 1.3.4.0 - AB7BB

AB7BB Files Message Attachments Move To: Saved Items Delete Open Session: Telnet WL2K Logs Help

No active session...

System Folders

- Inbox (0 unread)
- Read Items (0)
- Outbox (0)
- Sent Items (112)
- Saved Items (0)
- Deleted Items (0)

Personal Folders

Global Folders

Contacts

- 5202414405@bt.att.net
- 5202477607@bt.att.net
- 5204815477@tmomail.net
- 5205085636@myvzw.com
- 5205085636@vtext.com
- 5205763087@messaging.sprintpc
- 5205763087@tmomail.net
- 5205763087@bt.att.net
- 5205763087@vtext.com
- 5207436117@email.uscc.net
- 5207436117@bt.att.net
- 5207436117@vtext.com
- 5209548779@vtext.com
- 5209548779@vtext.com

	Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
	2015/08/31 ...	MXE36C2IR...	1310	SMTP	SMTP:billhic...	AB7AA	test2
	2015/08/31 ...	G6PHS4BV...	1342	SMTP	SMTP:billhic...	AB7AA	test
	2015/03/08 ...	0VDB9PLZ...	362	N7INK	N7INK	AB7AA	//WL2K Second test
	2015/03/08 ...	884PGF5H1...	346	N7INK	N7INK	AB7AA	//WL2K radio config. Issue
	2015/03/08 ...	1XYJ4UP19...	1131	N7NYG	N7NYG	K7RDG .	//WL2K 1745 GARDNER CANYON
	2015/03/01 ...	WRJVFYME...	188	K7BUM	K7BUM	AB7AA	//WL2K Test Message
	2015/03/01 ...	F1AYQSV...	159	AB7AA	AB7AA	AB7BB	//WL2K test
	2015/02/28 ...	BN138R3A...	570	KE7DX	KE7DX	AB7AA	Re:FW: //WL2K EXERCISE 1700 CA GULCH
	2015/02/28 ...	2NIMBPQQ...	263	KE7DX	KE7DX	AB7AA-1	//WL2K Prep for OP50
	2015/02/27 ...	AEZZGSQ8...	335	AB7BB	AB7BB	K7RDG .	Re://WL2K EXERCISE 1700 CA GULCH
	2015/02/26 ...	EL15QUYU...	1154	K7RDG	K7RDG	AB7AA .	//WL2K EXERCISE 1700 CA GULCH
	2015/02/21 ...	AYSR5I7NS...	554	SMTP	SMTP:radio...	AB7AA-1	Re: //WL2K camping
	2015/02/21 ...	MAW097Q3...	446	SYST...	SYSTEM	AB6Z .	//WL2K User Notice
	2015/02/21 ...	RTZ6JTO9...	668	SYST...	SYSTEM	AB6Z .	//WL2K User Notice
	2015/02/05 ...	1OFRWJP1...	290	AF9W	AF9W	G8BPQ .	//WL2K Using UZ7HO as TNC for RMS Express
	2015/02/03 ...	CPSZIPNRK...	304	AF9W	AF9W	AB7AA	//WL2K This is a test
	2015/01/12 ...	5MCMJCC...	462	SMTP	SMTP:5207...	AB7AA	RE: //WL2K Simulated Emergency

To: G8BPQ; K7BUM; AB7AA
Source: AF9W
Subject: //WL2K Using UZ7HO as TNC for RMS Express

This note was sent using UZ7HO and Signalink as the TNC for RMS Express packet. Pretty cool.
Thanks John.

Bob AF9W

2:42 PM
9/21/2015

New Message Form

RMS Express 1.3.4.0 - AB7BB

AB7BB

Enter a new message

Close Select Template Attachments Post to Outbox Save in Drafts Folder Spell Check

From: [Dropdown] Winlink Message Peer-to-Peer Message Request read receipt

To: [Text Field]

Cc: [Text Field]

Subject: [Text Field]

Attach: [Text Field]

System

No active sessions

Inbox (0 unread)

Read Items (0)

Outbox (0)

Sent Items (11)

Saved Items (0)

Deleted Items

Personal

Global

Contact

5202414405@bt.a

5202477607@bt.a

5204815477@tmo

5205085636@myv

5205085636@vtex

5205763087@mes

5205763087@tmo

5205763087@bt.a

5205763087@vtex

5207436117@ema

5207436117@bt.a

5207436117@vtex

5209548779@vtex

5209548779@vtex.com

2:48 PM

9/21/2015

Bob AF9W

etty cool.

Selecting a WL2K Session

The screenshot shows the RMS Express 1.3.5.0 - AB7BB interface. The top menu bar includes 'Files', 'Message', 'Attachments', 'Move To: Saved Items', 'Delete', 'Open Session: Telnet WL2K', 'Logs', and 'Help'. The main window displays a list of messages with columns for Date/Time, Message ID, Size, Source, Sender, Recipient, and Subject. A dropdown menu is open over the 'Open Session' button, listing various session types: Telnet WL2K, Packet WL2K, Pactor WL2K, Robust Packet WL2K, Winmor WL2K, Packet P2P, Pactor P2P, Robust Packet P2P, Winmor P2P, Telnet P2P, Pactor Radio-only, Winmor Radio-only, and Telnet Radio-only. The selected session is 'Telnet WL2K'. The message list shows a selected message with ID 1XYJ4UP190A, dated 2015/03/08, from N7NYG to K7RDG, K7BUM, and AB7AA. The message body is currently empty, showing '<No message body>'. The left sidebar shows system folders (Inbox, Read Items, Outbox, Sent Items, Saved Items, Deleted Items) and personal folders. The bottom left corner shows the system tray with the date and time: 3:59 PM /28/2015.

AB7BB Files Message Attachments Move To: Saved Items Delete Open Session: Telnet WL2K Logs Help

No active session...

	Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
	2015/08/31	MXE36C2IR...	1310	SMTP	SMTP:billhic...	AB7AA	test2
	2015/08/31	G6PHS4BV...	1342	SMTP	SMTP:billhic...	AB7AA	test
	2015/03/08	0VDB9PLZ...	362	N7INK	N7INK	AB7AA	//WL2K
	2015/03/08	884PGF5H1...	346	N7INK	N7INK	AB7AA	//WL2K
	2015/03/08	1XYJ4UP19...	1131	N7NYG	N7NYG	K7RDG .	//WL2K
	2015/03/01	WRJV FYME...	188	K7BUM	K7BUM	AB7AA	//WL2K
	2015/03/01	F1AYQSVA...	159	AB7AA	AB7AA	AB7BB	//WL2K
	2015/02/28	BN138R3A...	570	KE7DX	KE7DX	AB7AA	Re:F
	2015/02/28	2NIMBPQQ...	263	KE7DX	KE7DX	AB7AA-1	//WL2K
	2015/02/27	AEZZGSQ8...	335	AB7BB	AB7BB	K7RDG .	Re://WL2K EXERCISE 1700 CA GULCH
	2015/02/26	EL15QUYU...	1154	K7RDG	K7RDG	AB7AA .	//WL2K EXERCISE 1700 CA GULCH
	2015/02/21	AYSRS57NS...	554	SMTP	SMTP:radio...	AB7AA-1	Re: //WL2K camping
	2015/02/21	MAW097Q3...	446	SYST...	SYSTEM	AB6Z .	//WL2K User Notice
	2015/02/21	RTZ6JTO9...	668	SYST...	SYSTEM	AB6Z .	//WL2K User Notice
	2015/02/05	1OFRWJP1...	290	AF9W	AF9W	G8BPQ .	//WL2K Using UZ7HO as TNC for RMS Express
	2015/02/03	CPSZIPNRK...	304	AF9W	AF9W	AB7AA	//WL2K This is a test
	2015/01/12	5MCMQCC...	462	SMTP	SMTP:5207...	AB7AA	DE: //WL2K Simulated Emergency

Message ID: 1XYJ4UP190A
Date: 2015/03/08 00:49
From: N7NYG
To: K7RDG; K7BUM; AB7AA
Source: N7NYG
Subject: //WL2K 1745 GARDNER CANYON

<No message body>

System Folders
Inbox (0 unread)
Read Items (0)
Outbox (0)
Sent Items (112)
Saved Items (0)
Deleted Items (0)

Personal Folders

Global Folders

Contacts
5202414405@bt.att.net
5202477607@bt.att.net
5204815477@tmomail.net
5205085636@myvzw.com
5205085636@vtext.com
5205763087@messaging.sprintpc
5205763087@tmomail.net
5205763087@bt.att.net
5205763087@vtext.com
5207436117@email.uscc.net
5207436117@bt.att.net
5207436117@vtext.com
5209548779@vtext.com
5209548779@vtext.com

3:59 PM /28/2015

Starting Telnet Winlink Session

The screenshot shows the RMS Express 1.3.5.0 - AB7BB interface. The main window displays an email list with columns for Date/Time, Message ID, Size, Source, Sender, Recipient, and Subject. A Telnet Winlink 2000 Session window is open in the foreground, showing a menu with options: Exit, Setup, Start, Stop, and Time to next Autoconnect = 14:48.

In Telnet WL2K session.

	Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
	2015/08/31 ...	MXE36C2IR...	1310	SMTP	SMTP:billhic...	AB7AA	test2
	2015/08/31 ...	G6PHS4BV...	1342	SMTP	SMTP:billhic...	AB7AA	test
	2015/03/08 ...	0VDB9PLZ...	362	N7INK	N7INK	AB7AA	//WL2K Second test
	2015/03/08 ...	884PGF5H1...	346	N7INK	N7INK	AB7AA	//WL2K radio config. Issue
	2015/03/08 ...	1XYJ4UP19...	1131	N7NYG	N7NYG	K7RDG	//WL2K 1745 GARDNER CANYON
	2015/03/01 ...	WRJV FYME...	188	K7BUM	K7BUM	AB7AA	//WL2K Test Message
	2015/03/01 ...	F1AYQSVA...	159	AB7AA	AB7AA	AB7BB	//WL2K test

Telnet Winlink 2000 Session

Exit Setup **Start** Stop Time to next Autoconnect = 14:48

Telnet Winlink 2000 Session

The screenshot shows the RMS Express 1.3.5.0 - AB7BB interface. The main window displays a list of messages in a table format. The table has columns for Date/Time, Message ID, Size, Source, Sender, Recipient, and Subject. The selected message is from N7NYG to K7RDG with subject //WL2K 1745 GARDNER CANYON.

Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
2015/08/31 ...	MXE36C2IR...	1310	SMTP	SMTP:billhic...	AB7AA	test2
2015/08/31 ...	G6PHS4BV...	1342	SMTP	SMTP:billhic...	AB7AA	test
2015/03/08 ...	0VDB9PLZ...	362	N7INK	N7INK	AB7AA	//WL2K Second test
2015/03/08 ...	884PGF5H1...	346	N7INK	N7INK	AB7AA	//WL2K radio config. Issue
2015/03/08 ...	1XYJ4UP19...	1131	N7NYG	N7NYG	K7RDG	//WL2K 1745 GARDNER CANYON
2015/03/01 ...	WRJVFYME...	188	K7BUM	K7BUM	AB7AA	//WL2K Test Message
2015/03/01 ...	F1AYQSVA...	159	AB7AA	AB7AA	AB7BB	//WL2K test

Below the table, a 'Telnet Winlink 2000 Session' window is open, showing the following text:

```
Exit Setup Start Stop Time to next Autoconnect = 13:52
*** Connecting to a CMS...
*** Connected to San Diego at 28-Sep-2015 23:01:44
[WL2K-3.0-B2FWIHHJM$]
SanDiego CMS >
LM
No pending messages found...
SanDiego CMS >
SanDiego CMS >>
.FW: AB7BB AB7AA-1 AB7BB
[RMS Express-1.3.5.0-B2FHM$]
: WL2K DE AB7BB (DM42KH)
FF
FQ
*** --- End of session at 28-Sep-2015 23:01:45 ---
*** Messages sent 0. Total bytes sent 0. Time: 00:00, bytes/minute: 0
*** Messages Received: 0. Total bytes received: 0. Total session time: 00:00, bytes/minute: 0
*** Disconnected at 28-Sep-2015 23:01:50
```

Viewing Messages

The screenshot shows a Windows desktop environment with a taskbar on the left containing icons for Internet Explorer, Firefox, and several instances of Outlook Express. The main window is titled "RMS Express 1.3.5" and displays an email message. The message header includes the ID "8B3K2OBDHV7S - FW: RMS Express" and a menu bar with options like "Close", "Print", "View Attachments", "Reply", "Reply All", "Acknowledge", "Forward", and "Delete". The message body contains a header with fields for "Message ID", "Date", "From", "To", "Source", "Downloaded-from", and "Subject". The main text of the message is a reply from Bob Stephens to Bill Hickey, dated Friday, October 02, 2015, at 3:17 AM. The message content includes a promise to send files and a reference to a previous message from Bill Hickey on October 1, 2015, at 11:13 PM. The message concludes with a statement about the sender's weekend plans and priorities.

RMS Express 1.3.5

8B3K2OBDHV7S - FW: RMS Express

AB7BB

No active session.

System Folder

Inbox (0 unread)
Read Items (0)
Outbox (0)
Sent Items (113)
Saved Items (0)
Deleted Items (0)

Personal Folder

Global Folder

Contacts

5202414405@bt.att.net
5202477607@bt.att.net
5204815477@tmomail.n
5205085636@myvzw.co
5205085636@vtext.com
5205763087@messaging
5205763087@tmomail.n
5205763087@bt.att.net
5205763087@vtext.com
5207436117@email.usc
5207436117@bt.att.net
5207436117@vtext.com
5209548779@vtext
5209548779@vtext.com

Close Print View Attachments Reply Reply All Acknowledge Forward Delete

Message ID: 8B3K2OBDHV7S
Date: 2015/10/03 00:11
From: billhickey11@gmail.com
To: AB7BB
Source: SMTP
Downloaded-from: Telnet:Perth.Winlink.org
Subject: FW: RMS Express

From: Bob Stephens [mailto:af9w@bobandgloria.com]
Sent: Friday, October 02, 2015 3:17 AM
To: Bill Hickey
Subject: Re: RMS Express

I'll send you the files after I'm done.

Bob

On Oct 1, 2015, at 11:13 PM, Bill Hickey <billhickey11@gmail.com> wrote:

I would love to see your new presentation, but that's the weekend of my big antenna party which repopula with 80-10 M yagis and 160 dipole. These are the wife's contest ariels and a household priority.

6:58 PM
10/2/2015

Packet Winlink Session (Direct)

The screenshot displays the RMS Express 1.3.5.0 interface. The main window shows an email list for the 'Packet WL2K session'. The list includes columns for Date/Time, Message ID, Size, Source, Sender, Recipient, and Subject. A dialog box titled 'Packet Winlink 2000 Session' is open in the foreground, showing session configuration options like 'Direct' connection type and '1200 Baud' rate. The dialog also displays a log of session events, including 'Starting WL2K packet session...', 'Initializing Kenwood TH-D7/D72 A-Band; port COM3; 9600 baud', and 'Ready'.

RMS Express 1.3.5.0 - AB7BB

AB7BB Files Message Attachments Move To: Saved Items Delete Open Session: Packet WL2K Logs Help

In Packet WL2K session.

	Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
	2015/09/30 ...	HQKB9253...	390	SMTP	SMTP:billhic...	AB7BB	RE: //WL2K test
	2015/08/31 ...	MXE36C2IR...	1310	SMTP	SMTP:billhic...	AB7AA	test2
	2015/08/31 ...	G6PHS4BV...	1342	SMTP	SMTP:billhic...	AB7AA	test
	2015/03/08 ...	0VDB9PLZ...	362	N7INK	N7INK	AB7AA	//WL2K Second test
	2015/03/08 ...	884PGF5H1...	346	N7INK	N7INK	AB7AA	//WL2K radio config. Issue
	2015/03/08 ...	1XYJ4UP19...	1131	N7NYG	N7NYG	K7RDG	//WL2K 1745 GARDNER CANYON
	2015/03/01 ...	WRJV FYME...	188	K7BUM	K7BUM	AB7AA	//WL2K Test Message

Packet Winlink 2000 Session

Exit Setup Switch to Peer-to-Peer Session Channel Selection 1200 Baud **Start** Stop

Connection type: Direct AB7AA-10 Via ,

Connection script: Edit script Add script Remove script

Time to next Autoconnect = Disabled

```
*** Starting WL2K packet session...
*** Initializing Kenwood TH-D7/D72 A-Band; port COM3; 9600 baud
*** Initialization complete
*** Ready
```

Packet Session (Digipeat Via)

RMS Express 1.3.5.0 - AB7BB

AB7BB Files Message Attachments Move To: Saved Items Delete Open Session: Packet WL2K Logs Help

In Packet WL2K session.

	Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
	2015/10/03 ...	KPYT27HF...	2119	SMTP	SMTP:billhic...	AB7BB	FW: NMCM Sunset; some thoughts...
	2015/10/03 ...	9LA0ZUOB...	1431	SMTP	SMTP:billhic...	AB7BB	FW: RMS Express
	2015/10/03 ...	8B3K2OBD...	1426	SMTP	SMTP:billhic...	AB7BB	FW: RMS Express
	2015/09/30 ...	HQKB9253...	390	SMTP	SMTP:billhic...	AB7BB	RE: //WL2K test
	2015/08/31 ...	MXE36C2IR...	1310	SMTP	SMTP:billhic...	AB7AA	test2
	2015/08/31 ...	G6PHS4BV...	1342	SMTP	SMTP:billhic...	AB7AA	test
	2015/03/08 ...	0VDB9PLZ...	362	N7INK	N7INK	AB7AA	//WL2K Second test

System Folders: Inbox (0 unread), Read Items (0), Outbox (0), Sent Items (113), Saved Items (0), Deleted Items (0)

Personal Folders

Global Folders

Contacts: 5202414405@btx.att.net, 5202477607@btx.att.net, 5204815477@tmomail.net, 5205085636@myvzw.com, 5205085636@vtext.com, 5205763087@messaging.sprint, 5205763087@tmomail.net, 5205763087@btx.att.net, 5205763087@vtext.com, 5207436117@email.uscc.net, 5207436117@btx.att.net, 5207436117@vtext.com, 5209548779@vtext.com, 5209548779@vtext.com

1:32 PM 10/3/2015

Packet Winlink 2000 Session

Exit Setup Switch to Peer-to-Peer Session Channel Selection Baud Start Stop

Connection type: Digipeater AB7AA-10 Via CARA

Connection script: Direct Digipeater Edit script Add script Remove script

Time to next Autocor Script

```

*** Starting WL2K packet session...
*** Initializing Kenwood TH-D7/D72 A-Band; port COM3; 9600 baud
*** Initialization failed - *** Failed to open serial port on COM3. Port may be in use by another application.
    
```

Winmor Session

The screenshot displays the Winmor software interface. The main window, titled "WINMOR Sound Card TNC Ver:1.5.8.0 Port:8500", shows a "DISCONNECTED" connection state. The "Receive" section includes a "Rcv Level" bar, a "Remote Station Offset" of -0.5 Hz, and a "Rcv Frame" field. The "Transmit" section features an "Avg ACK Percentage" slider set to 100 and an empty "Xmt Frame" field. A "Busy Detector" is active, showing "Channel Clear" and a "Squelch" level of 5. The "Waterfall" display shows a spectrum with a 2kHz range from 500 to 2500 Hz, and a "4FSK / 19" mode indicator.

Below the main window, a "Winmor Winlink 2000 Session - AB7BB" window is open. It shows session parameters: "AB7AA" (Call Sign), "Center Freq. (kHz): 7103.400", "Dial Freq. (kHz): 7101.900", "Bearing: 000", and "Quality: 100". The session status is "Channel Free In: 0/0 Out: 0/0 BPM: 0/0 Disconnected". The contact list on the left includes:

- 5202414405@bt.att.net
- 5202477607@bt.att.net
- 5204815477@tmomail.net
- 5205085636@myvzw.com
- 5205085636@vtext.com
- 5205763087@messaging.sprint.net
- 5205763087@tmomail.net
- 5205763087@bt.att.net
- 5205763087@vtext.com
- 5207436117@email.uscc.net
- 5207436117@bt.att.net
- 5207436117@vtext.com
- 5209548779@vtext.com
- 5209548779@vtext.com

The system tray at the bottom left shows the time as 6:52 PM on 9/28/2015.

Winmor Channel Selection

RMS Express 1.3.5.0 - AB7BB

AB7BB Files Message Attachments Move To: Saved Items Delete Open Session: Winmor WL2K Logs Help

In Winmor WL2K session

System Folders

Inbox (0 unread)
Read Items (0)
Outbox (0)
Sent Items (112)
Saved Items (0)
Deleted Items (0)

Personal Folders

Global Folders

Contacts

5202414405@bt.att.net
5202477607@bt.att.net
5204815477@tmomail.net
5205085636@myvzw.com
5205085636@vtext.com
5205763087@messaging.sprint.net
5205763087@tmomail.net
5205763087@bt.att.net
5205763087@vtext.com
5207436117@email.uscc.net
5207436117@bt.att.net
5207436117@vtext.com
5209548779@vtext.com
5209548779@vtext.com

HF Channel Selector

Exit Select Update Table Via Internet Update Table Via Radio Forecast SFI All RMS

Callsign	Frequency (kHz)	Mode	Grid Square	Hours	Group	Distance (mi)	Bearing Degrees	Path Reliability Estimate	Path Quality Estimate
AB7AA	3589.0...	1600	DM42KH	00-...	EMCOMM	0	000	100	100
AB7AA	3582.5...	500	DM42KH	00-...	EMCOMM	0	000	100	100
AB7AA	7103.4...	1600	DM42KH	00-...	EMCOMM	0	000	100	100
AB7AA	7066.5...	500	DM42KH	00-...	EMCOMM	0	000	100	100
NJ7C	3595.0...	1600	DM41UL	00-...	PUBLIC	76	139	88	51
XE2BNC	7068.0...	1600	DM12KM	00-...	PUBLIC	350	274	87	51
W6SH	7093.0...	500	DM12JQ	00-...	PUBLIC	355	276	86	51
KN6B	7097.0...	1600	DM13JT	00-...	PUBLIC	367	288	86	50
K6JGL	7100.0...	500	DM03TU	00-...	PUBLIC	432	286	84	49
K6JGL	7103.5...	1600	DM03TU	00-...	PUBLIC	432	286	84	49
KM3N	7103.5...	1600	DM43CF	00-...	PUBLIC	74	329	83	52
NJ7C	7104.2...	1600	DM41UL	00-...	PUBLIC	76	139	83	52
XE2BNC	3591.7...	1600	DM12KM	00-...	PUBLIC	350	274	76	47
K6SDR	10146....	1600	CM87RX	00-...	PUBLIC	752	304	75	47
KD7NHC	7107.0...	1600	DM08HT	00-...	PUBLIC	644	316	73	46
XE1CRG	14085....	1600	DL90HQ	00-...	PUBLIC	1002	141	73	47
AE6LA	7080.0...	500	CM98TF	00-...	PUBLIC	662	311	72	46
N5TW	10148....	1600	EM10CP	00-...	EMCOMM	793	095	71	46
W5SEG	10141....	500	EL19AN	00-...	PUBLIC	802	100	71	45

7:04 PM
9/28/2015

Selected Channel Forecast

RMS Express 1.3.5.0 - AB7BB

AB7BB Files Message Attachments Move To

In Winmor WL2K session

System Folders

Inbox (0 unread)
Read Items (0)
Outbox (0)
Sent Items (112)
Saved Items (0)
Deleted Items (0)

Personal Folders

Global Folders

Contacts

5202414405@bt.att.net
5202477607@bt.att.net
5204815477@tmomail.net
5205085636@myvzw.com
5205085636@vtext.com
5205763087@messaging.sprint
5205763087@tmomail.net
5205763087@bt.att.net
5205763087@vtext.com
5207436117@email.uscc.net
5207436117@bt.att.net
5207436117@vtext.com
5209548779@vtext.com
5209548779@vtext.com

HF Channel Selector

Exit Select Update Table Via In

Callsign	Frequency (kHz)	Mode
K6JGL	7103.5...	1600
K6JGL	7100.0...	500
K6SDR	10146....	1600
XE2BNC	3591.7...	1600
KD7NHC	7107.0...	1600
AE6LA	7080.0...	500
KM3N	7103.5...	1600
KD6OAT	7097.0...	500
NJ7C	7104.2...	1600
K7DAV	7065.9...	500
K7DAV	7104.5...	1600
N5TW	10148....	1600
K6SDR	7104.5...	1600
K5AEA	10146....	1600
W5SEG	10141....	500
K6ETA	7085.0...	1600
XE1CRG	14085....	1600
XE1CRG	10142....	1600
KD6OAT	10132....	500

Propagation Forecast for XE1C...

Hour (Z)	10142.00	14085.00	18107.00	21102.50
00	43	46	48	39
01	44	47	47	34
02	45	47	35	18
03	45	39	16	0
04	45	30	0	0
05	45	26	0	0
06	45	27	0	0
07	45	25	0	0
08	45	23	0	0
09	45	21	0	0
10	44	13	0	0
11	38	0	0	0
12	39	4	0	0
13	45	29	0	0
14	43	47	32	0
15	40	44	47	30
16	36	32	46	32
17	19	40	44	32
18	14	38	43	33
19	11	37	42	36
20	13	37	42	45
21	18	40	43	45
22	25	41	45	47
23	40	44	47	47

or WL2K Logs Help

Path Quality estimate

49
49
47
47
46
46
49
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46
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49
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46
45
46
46
45
47
45
47

7:10 PM
9/28/2015

Winmor TNC (Displayed 8 Carrier/32 QAM/94 baud)

WINMOR Sound Card TNC Ver:1.5.0.13 Port:8600 W5SMM / KN6KB

Help Hide Send ID

Connection State

IRS


TCP Capture OK

Transmit

0 Avg ACK Percentage 100

Xmt Frame: ACK: 11111111 xFF

Receive


Rcv Level: 

Remote Station Offset: 0.0 Hz

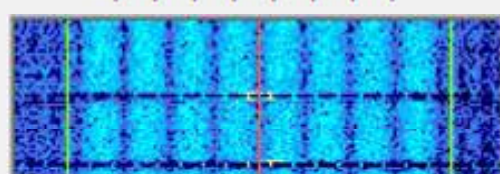
Rcv Frame: 8 Car V32QAM FEC Data


Busy Detector

Channel Clear

Squelch: 4 

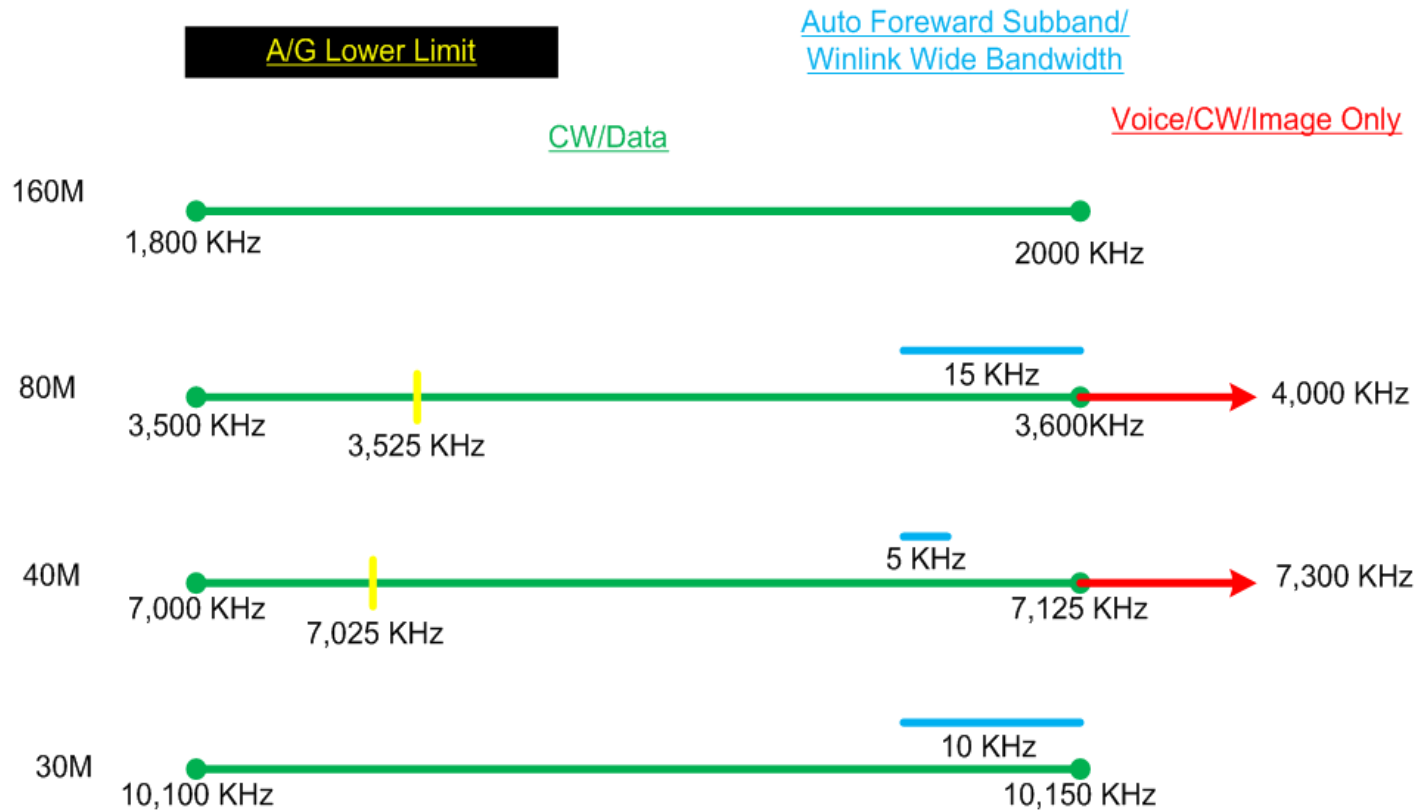
Waterfall Spectrum Disable

 Waterfall 2KHz

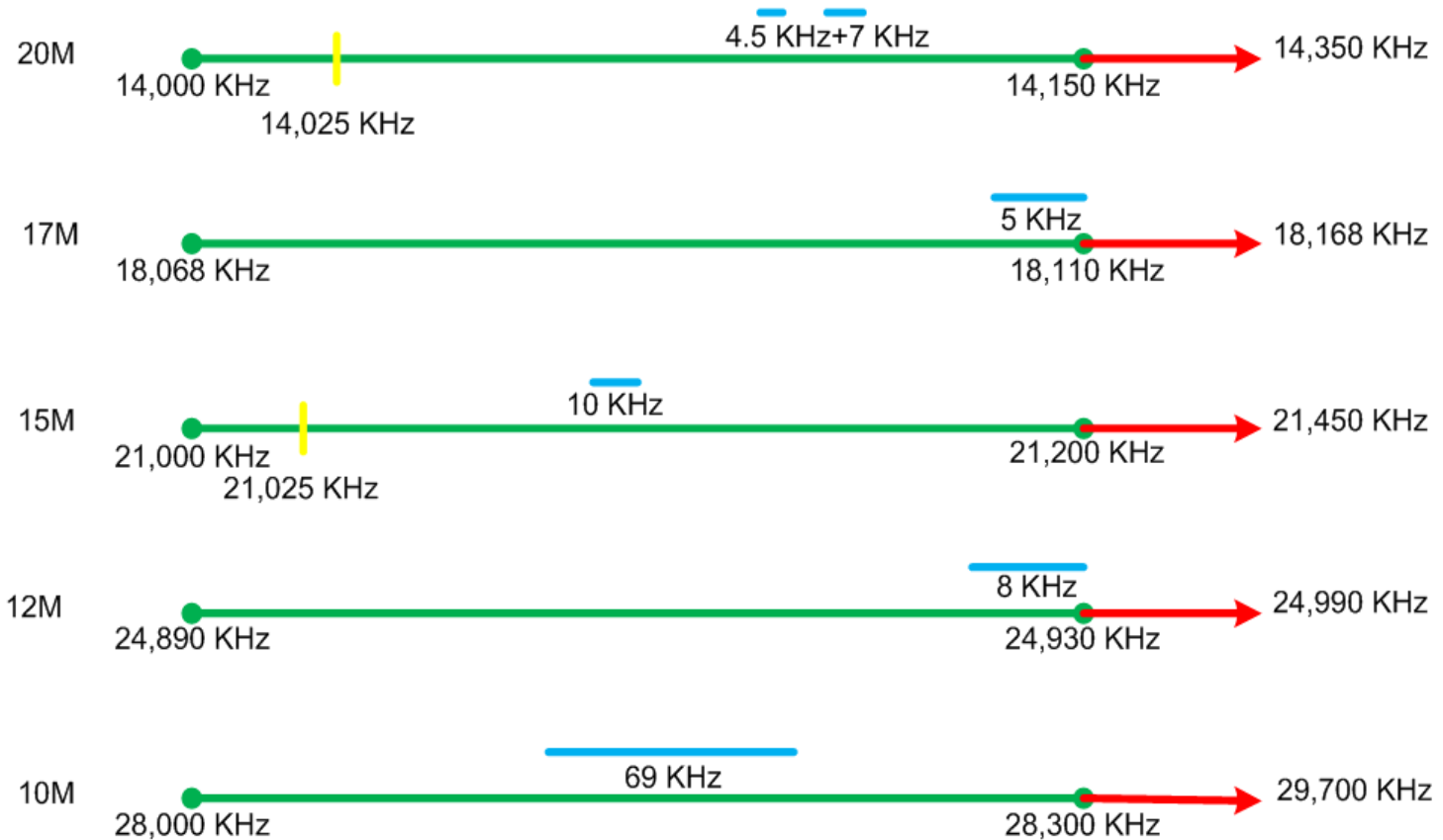
 32QAM / 47

500 2500

US HF Data Band Plans



US HF Data Band Plans (cont)



Selected Winmor Session Information

- *** WINMOR 500 connect from K7BUM on 3582.50 KHz at 2015-09-28 00:38 UTC *****
- RMS Trimode 1.3.3.0 Emergency and Welfare Traffic Only
- K7BUM has 1437 minutes remaining with AB7AA
- SanDiego CMS via AB7AA >
- [RMS Express-1.3.5.0-B2FHM\$]
- *** Range 27 Kilometers / Bearing 121 Degrees True
- FC EM KS94EJYBRP15 33844 8625 0
- --Connection Summary-- 2015-09-28 00:49:26 Mode: WINMOR5 Bytes Confirmed Sent: 8664 Bytes To CMS: 80 Peak Bytes Per Min: 1115 Last Command: FQ Session Time: 10.9 min
- *** Solar flux index via Internet {SFI = 120 on 2015-09-28 02:00 UTC}

Opening Attachments

RMS Express 1.3.5.0 - AB7BB

AB7BB Files Message Attachments Move To: Saved Items Delete Open Session: Telnet WL2K Logs Help

No active session.

System Folders
 Inbox (1 unread)
 Read Items (0)
 Outbox (0)
 Sent Items (113)
 Saved Items (0)
 Deleted Items (0)

Personal Folders

Global Folders

Contacts

	Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
	2015/10/0...	11WXBK...	1425	SMTP	SMTP:bill...	AB7BB	NTS Message
	2015/10/03 ...	KPYT27HF...	2119	SMTP	SMTP:billhic...	AB7BB	FW: NMCM Sunset; some thoughts...
	2015/10/03 ...	9LA0ZUOB...	1431	SMTP	SMTP:billhic...	AB7BB	FW: RMS Express
	2015/10/03 ...	8B3K2OBD...	1426	SMTP	SMTP:billhic...	AB7BB	FW: RMS Express
	2015/09/30 ...	HQKB9253...	390	SMTP	SMTP:billhic...	AB7BB	RE: //WL2K test
	2015/08/31 ...	MXE36C2IR...	1310	SMTP	SMTP:billhic...	AB7AA	test2
	2015/08/31 ...	G6PHS4BV...	1342	SMTP	SMTP:billhic...	AB7AA	test
	2015/03/08 ...	0VDB9PLZ...	362	N7INK	N7INK	AB7AA	//WL2K Second test
	2015/03/08 ...	884PGF5H1...	346	N7INK	N7INK	AB7AA	//WL2K radio config. Issue
	2015/03/08 ...	1XYJ4UP19...	1131	N7NYG	N7NYG	K7RDG	//WL2K 1745 GARDNER CANYON
	2015/03/01 ...	WRJV FYME...	188	K7BUM	K7BUM	AB7AA	//WL2K Test Message
	2015/03/01 ...	F1AYQSVA...	159	AB7AA	AB7AA	AB7BB	//WL2K test
	2015/02/28 ...	BN138R3A...	570	KE7DX	KE7DX	AB7AA	Re:FW: //WL2K EXERCISE 1700 CA GULCH
	2015/02/28 ...	2NIMBPQQ...	263	KE7DX	KE7DX	AB7AA-1	//WL2K Prep for OP50
	2015/02/27 ...	AEZZGSQ8...	335	AB7BB	AB7BB	K7RDG	Re://WL2K EXERCISE 1700 CA GULCH
	2015/02/26 ...	EL15QUYU...	1154	K7RDG	K7RDG	AB7AA	//WL2K EXERCISE 1700 CA GULCH
	2015/02/21 ...	AYSD5I7MS...	554	SMTP	SMTP:radio...	AB7AA-1	Re: //WL2K comping

Message ID: 8B3K2OBDHV7S
 Date: 2015/10/03 00:11
 From: billhickey11@gmail.com
 To: AB7BB
 Source: SMTP
 Downloaded-from: Telnet:Perth.Winlink.org
 Subject: FW: RMS Express

5202414405@bt.att.net
 5202477607@bt.att.net
 5204815477@tmomail.net
 5205085636@myvzw.com
 5205085636@vtext.com
 5205763087@messaging.sprintc
 5205763087@tmomail.net
 5205763087@bt.att.net
 5205763087@vtext.com
 5207436117@email.uscc.net
 5207436117@bt.att.net
 5207436117@vtext.com
 5209548779@vtext
 5209548779@vtext.com

2:36 PM
 10/3/2015

Flmsg Attachment (.m2s)

RMS Express 1.3.5.0 - AB7BB

AB7BB Files Message Attachments Move To: Saved Items Delete Open Session: Telnet WL2K Logs Help

No active session.

System Folders
 Inbox (0 unread)
 Read Items (0)
 Outbox (0)
 Sent Items (113)
 Saved Items (0)
 Deleted Items (0)

Personal Folders

Global Folders

Contacts

Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
2015/10/03 ...	11WXBAK0...	1425	SMTP	SMTP:billhic...	AB7BB	NTS Message
2015/10/03 ...	KPYT27HF...	2119	SMTP	SMTP:billhic...	AB7BB	FW: NMCM Sunset; some thoughts...
2015/10/03 ...	9LA0ZUOB...	14...	SMTP	SMTP:billhic...	AB7BB	FW: NMCM Sunset; some thoughts...
2015/10/03 ...	8B3K2OBD...	14...	SMTP	SMTP:billhic...	AB7BB	FW: NMCM Sunset; some thoughts...
2015/09/30 ...	HQKB9253...	39...	SMTP	SMTP:billhic...	AB7BB	FW: NMCM Sunset; some thoughts...
2015/08/31 ...	MXE36C2IR...	13...	SMTP	SMTP:billhic...	AB7BB	FW: NMCM Sunset; some thoughts...
2015/08/31 ...	G6PHS4BV...	13...	SMTP	SMTP:billhic...	AB7BB	FW: NMCM Sunset; some thoughts...
2015/03/08 ...	0VDB9PLZ...	36...	SMTP	SMTP:billhic...	AB7BB	FW: NMCM Sunset; some thoughts...
2015/03/08 ...	884PGF5H1...	34...	SMTP	SMTP:billhic...	AB7BB	FW: NMCM Sunset; some thoughts...
2015/03/08 ...	1XYJ4UP19...	11...	SMTP	SMTP:billhic...	AB7BB	FW: NMCM Sunset; some thoughts...
2015/03/01 ...	WRJV FYME...	18...	SMTP	SMTP:billhic...	AB7BB	FW: NMCM Sunset; some thoughts...
2015/03/01 ...	F1AYQSVA...	15...	SMTP	SMTP:billhic...	AB7BB	FW: NMCM Sunset; some thoughts...
2015/02/28 ...	BN138R3A...	57...	SMTP	SMTP:billhic...	AB7BB	FW: NMCM Sunset; some thoughts...
2015/02/28 ...	2NIMBPQQ...	26...	SMTP	SMTP:billhic...	AB7BB	FW: NMCM Sunset; some thoughts...
2015/02/27 ...	AEZZGSQ8...	33...	SMTP	SMTP:billhic...	AB7BB	FW: NMCM Sunset; some thoughts...
2015/02/26 ...	EL15QUYU...	11...	SMTP	SMTP:billhic...	AB7BB	FW: NMCM Sunset; some thoughts...
2015/02/26 ...	AYSD57NS...	55...	SMTP	SMTP:billhic...	AB7BB	FW: NMCM Sunset; some thoughts...

Message ID: 11WXBAK0KV5L
 Date: 2015/10/03 21:34
 From: billhickey11@gmail.com
 To: AB7BB
 Source: SMTP
 Downloaded-from: Telnet:BR...
 Subject: NTS Message

FLMSG: 2.0.3

File Form Template Config AutoSend Help

ARRL radiogram file: KE8DM.m2s

Message Records

SVC *NR *PREC HX *STN ORIG CK
 1 ROUTINE HXF28jun hx AB7AA ARL 14 ck

PLACE OF ORIG TIME FILED *MON DY
 MT BIGELOW ARIZONA 1919L JUN 27

*TO
 ARRL ARIZONA SECTION MANAGER
 ROBERT J SPENCER KE8DM
 1831 S MCKINLEY AVE
 YUMA AZ 85364
 TEL: 928 941 7069
 OP NOTE:

Standard Format ARL MSG

TXT:
 ARL FIFTY ONE MT BIGELOW
 COMMA ARIZONA PERIOD TWO ARES
 OPERATORS AB7AA COMMA AB7BB

SIG: WILLIAM HICKEY OP NOTE:

Comp base64 DOMX22 516 bytes / 49 secs

2:39 PM 10/3/2015

NTS Radiogram

The screenshot shows a web browser window with the following elements:

- Address Bar:** C:\Users\Administrator\NBE
- Navigation:** Back, Forward, Refresh, Home, Star, Settings icons.
- Menu Bar:** File, Edit, View, Favorites, Tools, Help.
- Toolbar:** Convert, Select.
- Page Content:**
 - THE AMERICAN RADIO RELAY LEAGUE**
 - RADIOGRAM**
 - VIA AMATEUR RADIO**
 - Table:**

NUMBER	PRECEDENCE	HX	STATION OF ORIGIN	CHECK	PLACE OF ORIGIN	TIME FILED	DATE
1	ROUTINE	HXF28jun	AB7AA	ARL 14	MT BIGELOW ARIZONA	1919L	JUN 27
 - TO:** ARRL ARIZONA SECTION MANAGER
ROBERT J SPENCER KE8DM
1831 S MCKINLEY AVE
YUMA AZ 85364
 - THIS RADIO MESSAGE WAS RECEIVED AT:** AB7AA [520 743 6117](tel:5207436117)
William Hickey
6330 W Peregrine Way
Tucson Az 85745
 - PHONE NUMBER:** [928 941 7069](tel:9289417069)
 - ARRL FIFTY ONE MT BIGELOW**
COMMA ARIZONA PERIOD TWO ARES
OPERATORS AB7AA COMMA AB7BB
 - WILLIAM HICKEY**
- Footer:** ARL FIFTY ONE: Greetings by Amateur Radio. This message is sent as a free public service by ham radio operators at _____. Am having a wonderful time.

Read Receipt

- Sender Selects “Request Read-Receipt” Box On Message Form
- Recipient Software Auto-Generates Msg Acknowledging The Msg Was Opened
- The “Acknowledge” Msg Is Returned On The Next Recipient CMS Session
- ...Or...Recipient Selects “Acknowledge” On Received Msg



Review Messages Before Downloading (Selection)

RMS Express 1.3.5.0 - AB7BB

AB7BB Files Message Attachments Move To: Saved Items Delete Open Session: Pactor WL2K Logs Help

No active session.

System Folders

- Inbox (0 unread)
- Read Items (0)
- Outbox (0)
- Sent Items (112)
- Saved Items (0)
- Deleted Items (0)

Personal Folders

Global Folders

Contacts

5202414405@txt.att.net
 5202477607@txt.att.net
 5204815477@tmomail.net
 5205085636@myvzw.com
 5205085636@vtext.com
 5205763087@messaging.sprintpc
 5205763087@tmomail.net
 5205763087@txt.att.net
 5205763087@vtext.com
 5207436117@email.uscc.net
 5207436117@txt.att.net
 5207436117@vtext.com
 5209548779@vtext.com
 5209548779@vtext.com

RMS Express Setup...
 Review message list before downloading
 GPS / Position Reports...
 Winlink Catalog Requests...
 GRIB file request...
 Preferences...
 Update User Options...
 Message Notification and Forwarding
 View background tasks...
 Form settings...
 Contacts...
 Group Addresses...
 Add Personal Folder...
 Add Global Folder...
 Hybrid Network Parameters
 Backup and restore databases...
 Exit

Source	Sender	Recipient	Subject
SMTP	SMTP:billhic...	AB7AA	test2
SMTP	SMTP:billhic...	AB7AA	test
N7INK	N7INK	AB7AA	//WL2K Second test
N7INK	N7INK	AB7AA	//WL2K radio config. Issue
N7NYG	N7NYG	K7RDG .	//WL2K 1745 GARDNER CANYON
K7BUM	K7BUM	AB7AA	//WL2K Test Message
AB7AA	AB7AA	AB7BB	//WL2K test
KE7DX	KE7DX	AB7AA	Re:FW: //WL2K EXERCISE 1700 CA GULCH
KE7DX	KE7DX	AB7AA-1	//WL2K Prep for OP50
AB7BB	AB7BB	K7RDG .	Re://WL2K EXERCISE 1700 CA GULCH
K7RDG	K7RDG	AB7AA .	//WL2K EXERCISE 1700 CA GULCH
SMTP	SMTP:radio...	AB7AA-1	Re: //WL2K camping
SYST...	SYSTEM	AB6Z .	//WL2K User Notice
SYST...	SYSTEM	AB6Z .	//WL2K User Notice
AF9W	AF9W	G8BPQ .	//WL2K Using UZ7HO as TNC for RMS Express
AF9W	AF9W	AB7AA	//WL2K This is a test
SMTP	SMTP:5207	AB7AA	DE: //WL2K Simulated Emergency

Message ID: X26FTIUMQZYP
 Date: 2014/12/02 03:55
 From: radiodadenator@gmail.com
 To: AB7AA
 Source: SMTP
 Subject: Re: //WL2K Additional Information

Bill,

2015/02/03 ... CPSZIPNRK... 304
 2015/01/12 ... 5N0N10CC ... 462

12:38 PM
 9/30/2015

Review Pending Messages

RMS Express 1.3.5.0 - AB7BB

Review Pending Messages

Pending incoming messages

Message ID	Date	Time	Size	From	Subject
<input checked="" type="checkbox"/> 9LA0ZUOBPLD4	2015/10/03	00:...	3838	BILLHICKEY11@GMAI...	FW: RMS EXPRESS
<input type="checkbox"/> HAYAW2XJS6GG	2015/10/03	00:...	73860	BILLHICKEY11@GMAI...	CARE AND FEEDING OF GERBALS DU...

Check the messages you want to download.

Select what to do with unchecked messages

Hold unchecked messages until later

Permanently delete unchecked messages

Display this message review screen for each download cycle

Download Checked Messages Select All Messages Deselect All Messages

5:23 PM 10/2/2015

5209548779@vtext.com

Selected Message Session

RMS Express 1.3.5.0 - AB7BB

AB7BB Files Message Attachments Move To: Saved Items Delete Open Session: Telnet WL2K Logs Help

In Telnet WL2K session.

	Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
	2015/09/30 ...	HQKB9253...	390	SMTP	SMTP:billhic...	AB7BB	RE: //WL2K test
	2015/08/31 ...	MXE36C2IR...	1310	SMTP	SMTP:billhic...	AB7AA	test2
	2015/08/31 ...	G6PHS4BV...	1342	SMTP	SMTP:billhic...	AB7AA	test
	2015/03/08 ...	0VDB9PLZ...	362	N7INK	N7INK	AB7AA	//WL2K Second test
	2015/03/08 ...	884PGF5H1...	346	N7INK	N7INK	AB7AA	//WL2K radio config. Issue
	2015/03/08 ...	1XYJ4UP19...	1131	N7NYG	N7NYG	K7RDG	//WL2K 1745 GARDNER CANYON
	2015/03/01 ...	WRJVFYME...	188	K7BUM	K7BUM	AB7AA	//WL2K Test Message

Telnet Winlink 2000 Session

Exit Setup **Start** Stop Time to next Autoconnect = 13:17

```
FF
FC EM 9LA0ZUOBPLD4 3611 1387 0
F> 20
FS Y
*** Receiving 9LA0ZUOBPLD4
*** 9LA0ZUOBPLD4 - 3626/1397 bytes received
*** Bytes: 1421, Time: 00:00, bytes/minute: 2079396
FF
FC EM HAYAW2XJS6GG 54218 52973 0
F> 95
FS N
*** Rejected 1 messages due to manual selection.
FQ
*** --- End of session at 03-OcA-2015 00:23:23 ---
*** Messages sent 0. Total bytes sent 0, Time: 00:25, bytes/minute: 0
*** Messages Received: 1. Total bytes received: 1421, Total session time: 00:25, bytes/minute: 3335
*** Disconnected at 03-OcA-2015 00:23:28
```

5:25 PM 10/2/2015

Hybrid Network Parameters Selection

RMS Express 1.3.5.0 - AB7BB

AB7BB Files Message Attachments Move To: Saved Items Delete Open Session: Winmor WL2K Logs Help

No active session.

System Folders

- Inbox (0 unread)
- Read Items (0)
- Outbox (0)
- Sent Items (112)
- Saved Items (0)
- Deleted Items (0)

Personal Folders

Global Folders

Contacts

- 5202414405@txt.att.net
- 5202477607@txt.att.net
- 5204815477@tmomail.net
- 5205085636@myvzw.com
- 5205085636@vtext.com
- 5205763087@messaging.sprintpc
- 5205763087@tmomail.net
- 5205763087@txt.att.net
- 5205763087@vtext.com
- 5207436117@email.uscc.net
- 5207436117@txt.att.net
- 5207436117@vtext.com
- 5209548779@vtext.com
- 5209548779@vtext.com

RMS Express Setup...

Review message list before downloading

GPS / Position Reports...

Winlink Catalog Requests...

GRIB file request...

Preferences...

Update User Options...

Message Notification and Forwarding

View background tasks...

Form settings...

Contacts...

Group Addresses...

Add Personal Folder...

Add Global Folder...

Hybrid Network Parameters

Backup and restore databases...

Exit

Source	Sender	Recipient	Subject
SMTP	SMTP:billhic...	AB7AA	test2
SMTP	SMTP:billhic...	AB7AA	test
N7INK	N7INK	AB7AA	//WL2K Second test
N7INK	N7INK	AB7AA	//WL2K radio config. Issue
N7NYG	N7NYG	K7RDG	//WL2K 1745 GARDNER CANYON
K7BUM	K7BUM	AB7AA	//WL2K Test Message
AB7AA	AB7AA	AB7BB	//WL2K test
KE7DX	KE7DX	AB7AA	Re:FW: //WL2K EXERCISE 1700 CA GULCH
KE7DX	KE7DX	AB7AA-1	//WL2K Prep for OP50
AB7BB	AB7BB	K7RDG	Re://WL2K EXERCISE 1700 CA GULCH
K7RDG	K7RDG	AB7AA	//WL2K EXERCISE 1700 CA GULCH
SMTP	SMTP:radio...	AB7AA-1	Re: //WL2K camping
SYST...	SYSTEM	AB6Z	//WL2K User Notice
SYST...	SYSTEM	AB6Z	//WL2K User Notice
AF9W	AF9W	G8BPQ	//WL2K Using UZ7HO as TNC for RMS Express
AF9W	AF9W	AB7AA	//WL2K This is a test
SMTP	SMTP:5207	AB7AA	DE: //WL2K Simulated Emergency

Message ID: 1XYJ4UP19OMA
 Date: 2015/03/08 00:49
 From: N7NYG
 To: K7RDG; K7BUM; AB7AA
 Source: N7NYG
 Subject: //WL2K 1745 GARDNER CANYON

<No message body>

2015/02/03 ... CPSZIPNRK... 304
 2015/01/12 ... ENONIOCC ... 462

7:41 PM
 9/28/2015

Hybrid Network Parameters

RMS Express 1.3.5.0 - AB7BB

AB7BB Files Message Attachments Move To: Saved Items Delete Open Session: Winmor WL2K Logs Help

No active session.

System Folders
Inbox (0 unread)
Read Items (0)
Outbox (0)
Sent Items (112)
Saved Items (0)
Deleted Items (0)

Personal Folders

Global Folders

Contacts

- 5202414405@bt.att.net
- 5202477607@bt.att.net
- 5204815477@tmomail.net
- 5205085636@myvzw.com
- 5205085636@vtext.com
- 5205763087@messaging.sprintpc
- 5205763087@tmomail.net
- 5205763087@bt.att.net
- 5205763087@vtext.com
- 5207436117@email.uscc.net
- 5207436117@bt.att.net
- 5207436117@vtext.com
- 5209548779@vtext.com
- 5209548779@vtext.com

Message
Date: 2015-09-28 18:56
From: N7IG
To: K7R
Source: N7IG
Subject: //WL2K 1745 GARDNER CANYON

<No message body>

Hybrid Network Parameters

Parameters specified on this screen control the flow of messages when they are being sent via radio-only forwarding.

Message Pickup Stations (MPS)

MPS 1: XE2BNC Update list of RMS available as MPS

MPS 2: K7DAV Display list of RMS available as MPS

MPS 3: Register MPS via Internet Queue radio message to register my MPS

Last update: 2015-09-28-18:56

When operating in radio-only mode, incoming messages for you will be held on the designated Message Pickup Station RMS until you pick them up.

Add /auto/ to subject lines

Save Cancel

Radio Only Modes

RMS Express 1.3.5.0 - AB7BB

AB7BB Files Message Attachments Move To: Saved Items Delete Open Session: Packet WL2K Logs Help

No active session.

System Folders

- Inbox (0 unread)
- Read Items (0)
- Outbox (0)
- Sent Items (112)
- Saved Items (0)
- Deleted Items (0)

Personal Folders

Global Folders

Contacts

- 5202414405@bt.att.net
- 5202477607@bt.att.net
- 5204815477@tmomail.net
- 5205085636@myvzw.com
- 5205085636@vtext.com
- 5205763087@messaging.sprintpc
- 5205763087@tmomail.net
- 5205763087@bt.att.net
- 5205763087@vtext.com
- 5207436117@email.uscc.net
- 5207436117@bt.att.net
- 5207436117@vtext.com
- 5209548779@vtext.com
- 5209548779@vtext.com

Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
2015/08/31 ...	MXE36C2IR...	1310	SMTP	SMTP:billhic...	AB7AA	test2
2015/08/31 ...	G6PHS4BV...	1342	SMTP	SMTP:billhic...	AB7AA	test
2015/03/08 ...	0VDB9PLZ...	362	N7INK	N7INK	AB7AA	//WL2K
2015/03/08 ...	884PGF5H1...	346	N7INK	N7INK	AB7AA	//WL2K
2015/03/08 ...	1XYJ4UP19...	1131	N7NYG	N7NYG	K7RDG .	//WL2K
2015/03/01 ...	WRJV FYME...	188	K7BUM	K7BUM	AB7AA	//WL2K
2015/03/01 ...	F1AYQSV A...	159	AB7AA	AB7AA	AB7BB	//WL2K
2015/02/28 ...	BN138R3A...	570	KE7DX	KE7DX	AB7AA	Re:F
2015/02/28 ...	2NIMBPQQ...	263	KE7DX	KE7DX	AB7AA-1	//WL2K
2015/02/27 ...	AEZZGSQ8...	335	AB7BB	AB7BB	K7RDG .	Re://WL2K EXERCISE 1700 CA GULCH
2015/02/26 ...	EL15QUYU...	1154	K7RDG	K7RDG	AB7AA .	//WL2K EXERCISE 1700 CA GULCH
2015/02/21 ...	AYSRS57NS...	554	SMTP	SMTP:radio...	AB7AA-1	Re: //WL2K camping
2015/02/21 ...	MAW097Q3...	446	SYST...	SYSTEM	AB6Z .	//WL2K User Notice
2015/02/21 ...	RTZ6JTO9...	668	SYST...	SYSTEM	AB6Z .	//WL2K User Notice
2015/02/05 ...	1OFRWJP1...	290	AF9W	AF9W	G8BPQ .	//WL2K Using UZ7HO as TNC for RMS Express
2015/02/03 ...	CPSZIPNRK...	304	AF9W	AF9W	AB7AA	//WL2K This is a test
2015/01/12 ...	5MNCIQC...	462	SMTP	SMTP:5207...	AB7AA	Re: //WL2K Simulated Emergency

Message ID: X26FTIUMQZYF
 Date: 2014/12/02 03:55
 From: radiodadenerator@gmail.com
 To: AB7AA
 Source: SMTP
 Subject: Re: //WL2K Additional Information

Bill,

Hybrid RMS Channels

RMS Express 1.3.5.0 - AB7BB

AB7BB Files Message Attachments Move To: Saved Items Delete Open Session: Winmor Radio-only Logs Help

In Winmor Radio-only st

System Folders

- Inbox (0 unread)
- Read Items (0)
- Outbox (0)
- Sent Items (112)
- Saved Items (0)
- Deleted Items (0)

Personal Folders

Global Folders

Contacts

- 5202414405@bt.att.net
- 5202477607@bt.att.net
- 5204815477@tmomail.net
- 5205085636@myvzw.com
- 5205085636@vtext.com
- 5205763087@messaging.sprint
- 5205763087@tmomail.net
- 5205763087@bt.att.net
- 5205763087@vtext.com
- 5207436117@email.uscc.net
- 5207436117@bt.att.net
- 5207436117@vtext.com
- 5209548779@vtext.
- 5209548779@vtext.com

Winm

Exit S

AB

Favorite

Channel F

*** Ready

*** Radio-d

HF Channel Selector

Exit Select Update Table Via Internet Update Table Via Radio Forecast SFI Radio-only capable RMS

Callsign	Frequency (kHz)	Mode	Grid Square	Hours	Group	Distance (mi)	Bearing Degrees	Path Reliability Estimate	Path Quality Estimate
XE2BNC	7068.0...	1600	DM12KM	00-...	PUBLIC	350	274	83	50
K6JGL	7100.0...	500	DM03TU	00-...	PUBLIC	432	286	82	49
K6JGL	7103.5...	1600	DM03TU	00-...	PUBLIC	432	286	82	49
K6SDR	10146....	1600	CM87RX	00-...	PUBLIC	752	304	77	47
XE2BNC	3591.7...	1600	DM12KM	00-...	PUBLIC	350	274	77	47
K7DAV	7104.5...	1600	DN40BX	00-...	PUBLIC	600	356	72	46
K7DAV	7065.9...	500	DN40BX	00-...	PUBLIC	600	356	72	46
K5AEA	10146....	1600	EM10DQ	00-...	PUBLIC	797	095	71	46
N5TW	10148....	1600	EM10CP	00-...	EMCOMM	793	095	71	46
K6SDR	7104.5...	1600	CM87RX	00-...	PUBLIC	752	304	71	45
XE1CRG	10142....	1600	DL90HQ	00-...	PUBLIC	1002	141	70	45
XE1CRG	14085....	1600	DL90HQ	00-...	PUBLIC	1002	141	70	47
XE1VP	14092....	1600	EK09EH	00-...	PUBLIC	1145	139	69	46
XE1VP	10143....	1600	EK09EH	00-...	PUBLIC	1145	139	66	44
N5TW	7102.0...	1600	EM10CP	00-...	EMCOMM	793	095	66	44
N5TW	7091.5...	500	EM10CP	00-...	EMCOMM	793	095	65	44
K5AEA	7100.0...	500	EM10DQ	00-...	PUBLIC	797	095	65	44
K5AEA	7104.5...	1600	EM10DQ	00-...	PUBLIC	797	095	65	44
N5TW	7066.5...	500	EM10CP	00-...	EMCOMM	793	095	65	44

7:30 PM
9/28/2015

E-Mail to Cellphone Messaging

- SMS-Up to 160 Characters
- MMS-Pictures
- Address Example 5207436117@txt.att.net
- Freelookup.com, Fonefinder.net (Internet)
- SMS Shotgun Method (No Internet)
 - 10#@txt.att.net AT&T (34%)
 - 10#@vzwpx.com Verizon (33%)
 - 10#@tmomail.net T-Mobile USA (16%)
 - 10#@pm.sprint.com Sprint (16%)

Peer-To-Peer (P2P) Sessions

- Does Not Use CMS's
- Stations Must Be on Air and Frequency
- Avoids Busy Winlink (Auto-Forwarding) Channels
- Processes Msgs Only Addressed To You
- Msgs Compatible With Winlink System
- No Multiple Addressing
- OP50 Alternate If Satellite Internet Inop

Improving Message Efficiency

- Use Most Compact File Attachment Type (.csv VS .xls)
- Use Flmsg For Forms (.M2S VS .html)
- Remove Unnecessary Text Before Replying
- Bundle Messages If Possible



Winlink EMCOM Essentials

- Build EMCOM Address Database
- Exercise The Database! (White List)
- Stick With Winlink Throughout Emergency



Winlink Position Reporting

- Can be Integrated with Computer GPS
 - Position, Heading, Speed
 - Weather Instruments (Reported to NOAA)
- Automatically Forwarded to APRS
- Closest 30 User Positions via WL2K Bulletin
- Positions Plotted on WL2K Web Site Map (Internet Required)



Position Reporting Selection

RMS Express 1.3.5.0 - AB7BB

AB7BB Files Message Attachments Move To: Saved Items Delete Open Session: Packet WL2K Logs Help

No active session.

System Folders

- Inbox (0 unread)
- Read Items (0)
- Outbox (0)
- Sent Items (112)
- Saved Items (0)
- Deleted Items (0)

Personal Folders

Global Folders

Contacts

5202414405@bt.att.net

5202477607@bt.att.net

5204815477@tmomail.net

5205085636@myvzw.com

5205085636@vtext.com

5205763087@messaging.sprintpc

5205763087@tmomail.net

5205763087@bt.att.net

5205763087@vtext.com

5207436117@email.uscc.net

5207436117@bt.att.net

5207436117@vtext.com

5209548779@vtext.com

5209548779@vtext.com

11:46 AM 9/30/2015

RMS Express Setup...

Review message list before downloading

GPS / Position Reports...

Winlink Catalog Requests...

GRIB file request...

Preferences...

Update User Options...

Message Notification and Forwarding

View background tasks...

Form settings...

Contacts...

Group Addresses...

Add Personal Folder...

Add Global Folder...

Hybrid Network Parameters

Backup and restore databases...

Exit

Source	Sender	Recipient	Subject
SMTP	SMTP:billhic...	AB7AA	test2
SMTP	SMTP:billhic...	AB7AA	test
N7INK	N7INK	AB7AA	//WL2K Second test
N7INK	N7INK	AB7AA	//WL2K radio config. Issue
N7NYG	N7NYG	K7RDG .	//WL2K 1745 GARDNER CANYON
K7BUM	K7BUM	AB7AA	//WL2K Test Message
AB7AA	AB7AA	AB7BB	//WL2K test
KE7DX	KE7DX	AB7AA	Re:FW: //WL2K EXERCISE 1700 CA GULCH
KE7DX	KE7DX	AB7AA-1	//WL2K Prep for OP50
AB7BB	AB7BB	K7RDG .	Re://WL2K EXERCISE 1700 CA GULCH
K7RDG	K7RDG	AB7AA .	//WL2K EXERCISE 1700 CA GULCH
SMTP	SMTP:radio...	AB7AA-1	Re: //WL2K camping
SYST...	SYSTEM	AB6Z .	//WL2K User Notice
SYST...	SYSTEM	AB6Z .	//WL2K User Notice
AF9W	AF9W	G8BPQ .	//WL2K Using UZ7HO as TNC for RMS Express
AF9W	AF9W	AB7AA	//WL2K This is a test
SMTP	SMTP:5207...	AB7AA	RE: //WL2K Simulated Emergency

Message ID: X26FTIUMQZYF

Date: 2014/12/02 03:55

From: radiodadenator@gmail.com

To: AB7AA

Source: SMTP

Subject: Re: //WL2K Additional Information

Bill,

Position Reporting

RMS Express 1.3.5.0 - AB7BB

AB7BB Files Message Attachments Move To: Save

No active session.

System Folders

- Inbox (0 unread)
- Read Items (0)
- Outbox (0)
- Sent Items (112)
- Saved Items (0)
- Deleted Items (0)

Personal Folders

Global Folders

Contacts

- 5202414405@bt.att.net
- 5202477607@bt.att.net
- 5204815477@tmomail.net
- 5205085636@myvzw.com
- 5205085636@vtext.com
- 5205763087@messaging.sprintc
- 5205763087@tmomail.net
- 5205763087@bt.att.net
- 5205763087@vtext.com
- 5207436117@email.uscc.net
- 5207436117@bt.att.net
- 5207436117@vtext.com
- 5209548779@vtext
- 5209548779@vtext.com

Date/Time	Message ID	Size
2015/08/31 ...	MXE36C2IR...	1310
2015/08/31 ...	G6PHS4BV...	1342
2015/03/08 ...	0VDB9PLZ...	362
2015/03/08 ...	884PGF5H1...	346
2015/03/08 ...	1XYJ4UP19...	1131
2015/03/01 ...	WRJV FYME...	188
2015/03/01 ...	F1AYQSV A...	159
2015/02/28 ...	BN138R3A...	570
2015/02/28 ...	2NIMBPQQ...	263
2015/02/27 ...	AEZZGSQ8...	335
2015/02/26 ...	EL15QUYU...	1154
2015/02/21 ...	AYSRS57NS...	554
2015/02/21 ...	MAW097Q3...	446
2015/02/21 ...	RTZ6JTO9...	668
2015/02/05 ...	1OFRWJP1...	290
2015/02/03 ...	CPSZIPNRK...	304
2015/01/12 ...	5MCMQCC...	462

Message ID: X26FTIUMQZYP
Date: 2014/12/02 03:55
From: radiodadenator@gmail.c
To: AB7AA
Source: SMTP
Subject: Re: //WL2K Addition

Bill,

GPS / Position Report

GPS Serial Port

GPS Serial Port: None GPS Baud Rate: 4800

GPS Status

GPS Latitude: GPS Longitude:
GPS Speed: Knots GPS Course: True
 Automatically update grid square from GPS position:

Position Report

Your last position report was posted at 2014/09/23 09:12:11 UTC

Copy GPS Data Use Current Time

Report Date/Time: 2015/09/30 18:43:00 UTC

Latitude: 32-19.0N Longitude: 111-06.0W
Speed: 0.0 Knots Course: 0 True

Comment - 148
Characters Maximum:

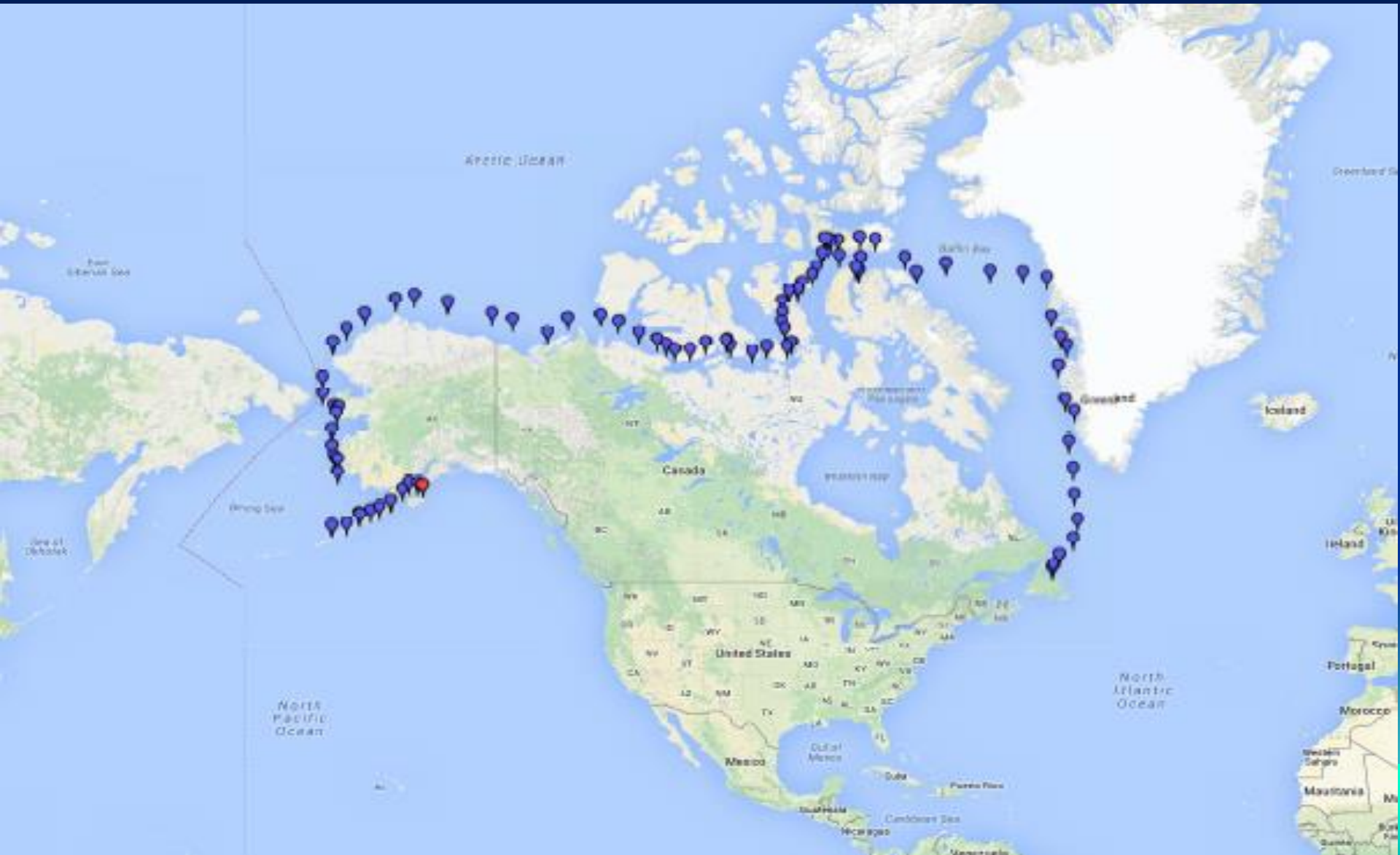
Add Marine Weather Report Post Report Close

11:43 AM
9/30/2015

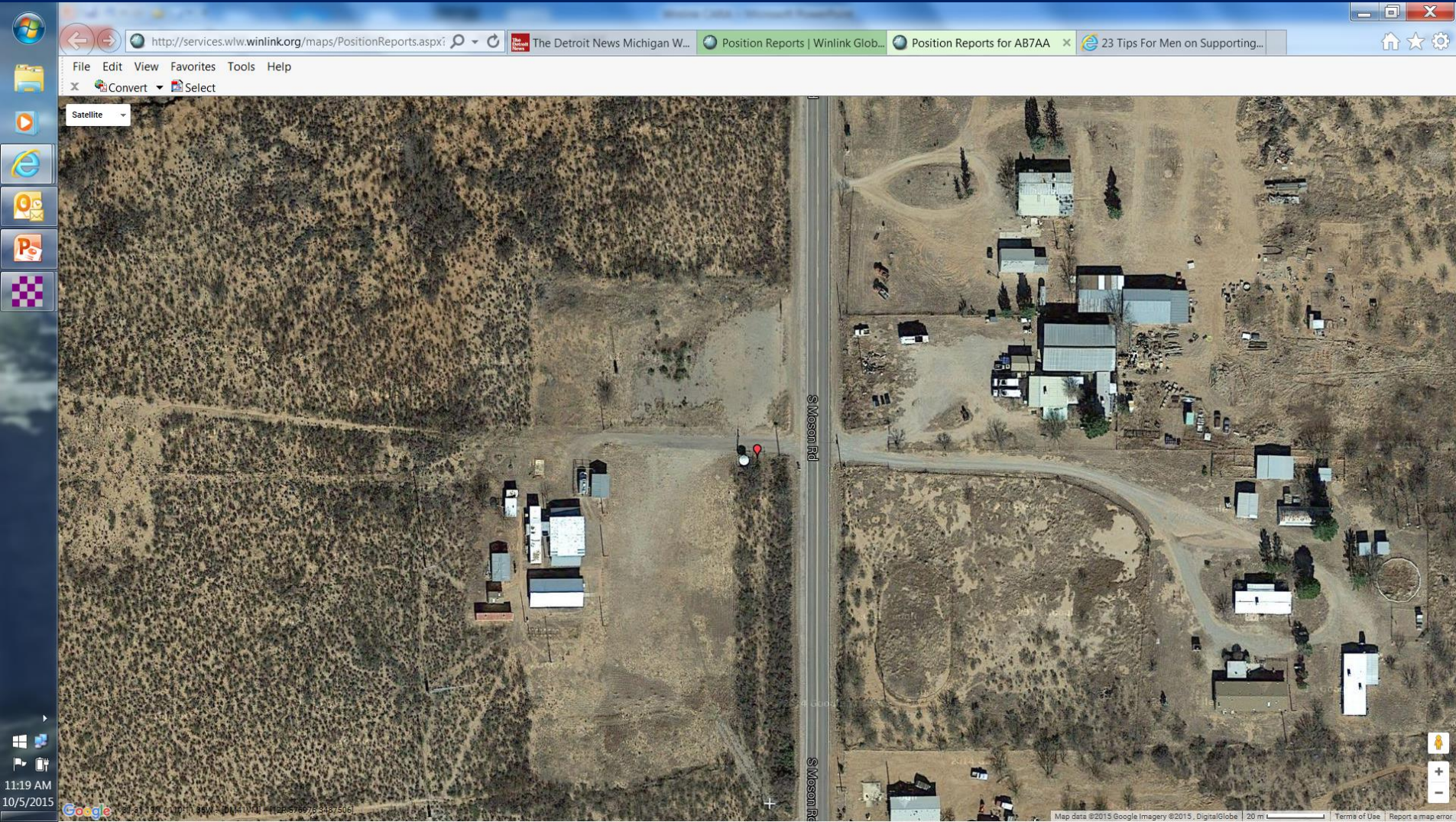
Winlink Position Reports



MOLPG Position Reports



AB7AA Current Position



Winlink Catalog Position Reports

RMS Express 1.3.6.0 - AB7BB

AB7BB Files Message Attachments Move To: Saved Items Delete Open Session: Telnet WL2K Logs Help

No active session...

System Folders

- Inbox (0 unread)
- Read Items (0)
- Outbox (0)
- Sent Items (116)
- Saved Items (0)
- Deleted Items (0)

Personal Folders

Global Folders

Contacts

- 5202414405@bt.att.net
- 5202477607@bt.att.net
- 5204815477@tmomail.net
- 5205085636@myvzw.com
- 5205085636@vtext.com
- 5205085636@vzwpix.com
- 5205763087@messaging.sprintpc
- 5205763087@tmomail.net
- 5205763087@bt.att.net
- 5205763087@vtext.com
- 5207436117@email.uscc.net
- 5207436117@bt.att.net
- 5207436117@vtext.com
- 5209548779@vtext.com

RMS Express Setup...

Review message list before downloading

GPS / Position Reports...

Winlink Catalog Requests...

GRIB file request...

Preferences...

Update User Options...

Message Notification and Forwarding

View background tasks...

Form settings...

Contacts...

Group Addresses...

Add Personal Folder...

Add Global Folder...

Hybrid Network Parameters

Backup and restore databases...

Exit

Source	Sender	Recipient	Subject
SMTP	SMTP:5205...	AB7AA	---
SMTP	SMTP:billhic...	AB7BB	NTS Message
SMTP	SMTP:billhic...	AB7BB	FW: NCMC Sunset; some thoughts...
SMTP	SMTP:billhic...	AB7BB	FW: RMS Express
SMTP	SMTP:billhic...	AB7BB	FW: RMS Express
SMTP	SMTP:billhic...	AB7BB	RE: //WL2K test
SMTP	SMTP:billhic...	AB7AA	test2
SMTP	SMTP:billhic...	AB7AA	test
N7INK	N7INK	AB7AA	//WL2K Second test
N7INK	N7INK	AB7AA	//WL2K radio config. Issue
N7NYG	N7NYG	K7RDG	//WL2K 1745 GARDNER CANYON
K7BUM	K7BUM	AB7AA	//WL2K Test Message
AB7AA	AB7AA	AB7BB	//WL2K test
KE7DX	KE7DX	AB7AA	Re:FW: //WL2K EXERCISE 1700 CA GULCH
KE7DX	KE7DX	AB7AA-1	//WL2K Prep for OP50
2015/02/27 ...	AEZZGSQ8...	335 AB7BB	AB7BB K7RDG . Re://WL2K EXERCISE 1700 CA GULCH
2015/02/28 ...	EL15Q1MU	1154 K7DDC	K7DDC AB7AA //WL2K EXERCISE 1700 CA GULCH

Message ID: X26FTIUMQZYF
 Date: 2014/12/02 03:55
 From: radiodadenator@gmail.com
 To: AB7AA
 Source: SMTP
 Subject: Re: //WL2K Additional Information

Bill,

11:27 AM
10/5/2015

Requesting 30 Nearest Posits

The screenshot shows a Windows desktop with the Winlink Query Catalog application open. The application window has a title bar that reads "Winlink Query Catalog". On the left side, there is a list of categories, with "WL2K_USERS" selected. The main area of the window displays a table of queries. The table has three columns: "Inquiry ID", "Description", and "Size". The following table represents the data shown in the screenshot:

Inquiry ID	Description	Size
CMS_STAT...	Real time Operational Status of all WL2K CMSs	3968
CMS_TRAF...	Winlink Message Traffic History	1778
WL2K_MOB...	WL2K Mobile user posting reports in the last 3...	466...
WL2K_NEA...	Closest 30 WL2K Mobiles to Your Last Report...	3474

On the right side of the window, there is a "Selections" section containing a list box with "WL2K_MOBILES" selected. Below the list box, there is a button labeled "Post Request". Underneath the button, it says "Last Update 2014/10/22 19:25". There are also buttons for "Update via Internet" and "Request update via radio". At the bottom right, there is a "Cancel" button.

The background shows a Windows taskbar with the time 5:27 PM and date 10/5/2015. The taskbar also shows several icons, including the Start button, Internet Explorer, and a folder icon. The desktop background is a blue gradient.

30 Closest Posits To Yours

RMS Express 1.3.6.0 - AB7BB

AB7AA DHXHYS4UMI4X - INQUIRY: WL2K_MOBILES

Close Print View Attachments Reply Reply All Acknowledge Forward Delete

No active

Inbox (1) Read It

Outbox (1) Sent It

Saved It

Deleted

Message ID: DHXHYS4UMI4X
Date: 2015/10/05 18:38
From: SERVICE
To: AB7AA
Source: WL2K
Downloaded-from: Telnet:Brentwood.Winlink.org
Subject: INQUIRY: WL2K_MOBILES

List of Mobile users and distance from AB7AA
Position: 31-31.20N 110-11.40W posted at: 10/4/2015 9:57:00 PM
(note: All dates in UTC, distance in nm and bearings True great circle.)

Winlink 2000 Mobile Users
(Only the latest report for each call within the past 30 days is listed.)

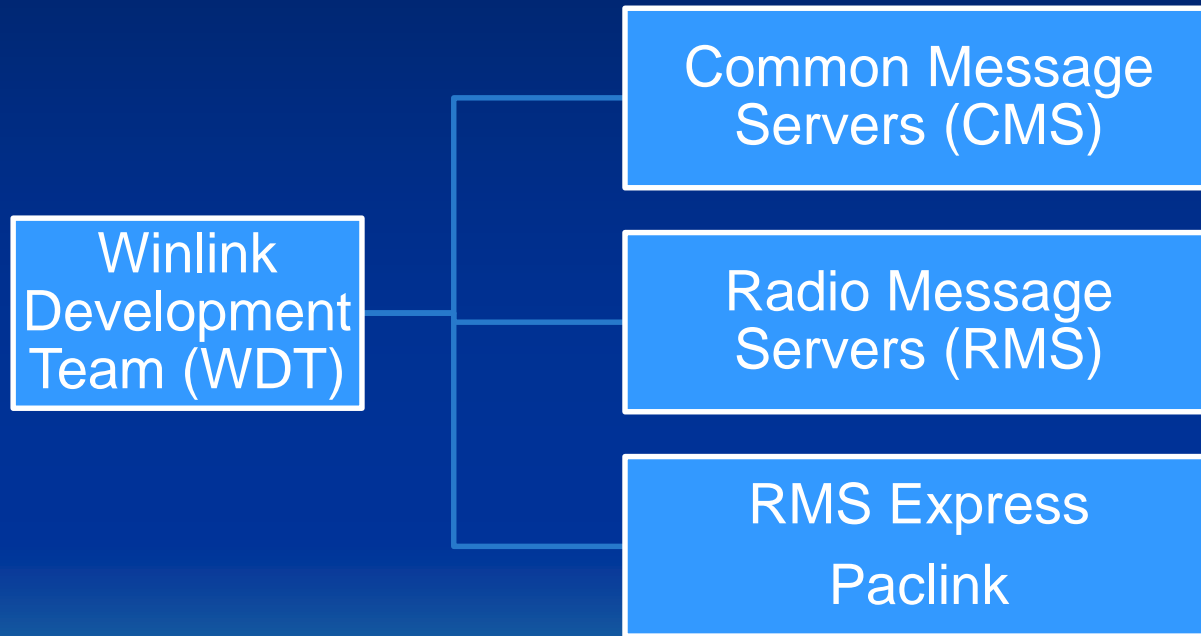
CALL	Dist (nm @ DegT)	POSITION	REPORTED	COMMENT
AB7AA	0.0 @ 000	31-31.20N 110-11.40W	2015/10/04 21:57	
KD4ZBP	50.6 @ 317	32-07.85N 110-52.52W	2015/10/01 14:50	Crazy Horse RV Park, Tucson, AZ. Here most o
K8JLB	134.1 @ 070	32-16.35N 107-42.72W	2015/10/02 02:31	
KD7ALH	208.3 @ 354	34-58.29N 110-38.56W	2015/09/17 15:00	Alt 4841
N0MOE	212.1 @ 330	34-33.52N 112-20.67W	2015/09/24 17:53	
KC2IOV	219.0 @ 192	27-56.85N 111-03.36W	2015/09/07 05:12	Tied up to dock in San Carlos after refuellin
520241440	20kt.			
520247760	AD6MH	233.6 @ 228 28-53.76N 113-31.11W	2015/09/30 01:02	S/V SCOOTs back at Duffy's Tavern, BoLA;
520481547	N4SVD	251.6 @ 334 35-15.36N 112-28.25W	2015/10/05 15:53	On the corner of WALK and DON'T WALK....
520508563	WB6RSF	334.6 @ 295 33-44.12N 116-16.08W	2015/09/24 23:56	North Ranch, Congress AZ
520508563	K1CT	364.2 @ 284 32-49.25N 117-11.75W	2015/10/04 15:01	
520576308	KK6UQA	370.0 @ 286 33-03.82N 117-15.32W	2015/09/21 04:00	
520576308	W6EPM	376.8 @ 288 33-12.63N 117-21.09W	2015/10/04 05:16	
520576308	KI6CZP	422.5 @ 291 33-48.43N 118-06.19W	2015/09/27 17:37	Just about ready to start the weekend trips t
520576308	KK6SVA	435.9 @ 288 33-26.65N 118-29.86W	2015/10/02 03:08	Isthmus Harbor, Lazy Days Mooring E6
520743611	N6KTS	435.9 @ 288 33-26.65N 118-29.86W	2015/09/07 13:36	at isthmus
520743611	KC0RPI	552.1 @ 026 39-41.54N 104-58.50W	2015/09/27 22:08	Good Sailing Taco Sunday
520743611	WA7PIB	581.8 @ 336 40-15.14N 115-24.48W	2015/10/02 01:04	Ruby Valley Hot Springs (Smith Spring), Nevad
520954877	AE6LA-12	641.6 @ 312 38-14.65N 120-20.61W	2015/09/07 16:02	@ Home in Arnold

11:40 AM
10/5/2015

OP50 WL2K Operations

- No MCU Winlink Radio Station Required (Telnet)
- No Voice Channel Coordination Required
- Simultaneous Digital Transmissions
- Single Operator Reporting Stations Possible
- All Data Automatically Received by All Addressees
- All Messages Sortable by Time, Station, Subject ...
- Minimal Transcription Errors
- Promotes Web Page Race Progress
- Reporting Station Position Verification

Winlink Software Updates



RMS Express Updates

The screenshot displays the RMS Express 1.3.4.0 interface. The main window shows a list of messages with the following columns: Date/Time, Message ID, Size, Source, Sender, Recipient, and Subject. An 'Autoupdate' dialog box is overlaid on the interface, displaying the following text:

A new version of this program has been released. Click 'Update Now' to install the update and restart. Click 'Remind Me Later' if you do not wish to update at this time.

Current Version: 1.3.4.0
New Version: 1.3.5.0

Buttons: Remind Me Later, Update Now

The background interface includes a menu bar with 'Files', 'Message', 'Attachments', 'Move To: Saved Items', 'Delete', 'Open Session: Telnet WL2K', 'Logs', and 'Help'. The left sidebar shows 'System Folders' and 'Personal Folders'. The bottom status bar shows the time as 3:54 PM on 9/28/2015.

Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
2015/08/31 ...	MXE36C2IR...	1310	SMTP	SMTP:billhic...	AB7AA	test2
2015/08/31 ...	G6PH...		SMTP	SMTP:billhic...	AB7AA	
2015/03/08 ...	0VDB...					
2015/03/08 ...	884P...					
2015/03/08 ...	1XYJ...					
2015/03/01 ...	WRJV...					
2015/03/01 ...	F1AY...					
2015/02/28 ...	BN13...					
2015/02/28 ...	2NIM...					
2015/02/27 ...	AEZZ...					
2015/02/26 ...	EL15...					
2015/02/21 ...	AYSR...					
2015/02/21 ...	MAW...					
2015/02/21 ...	RTZ6...					
2015/02/05 ...	1OFR...					

Message ID: X26FTIUMQZYF
Date: 2014/12/02 03:55
From: radiodadenator@gmail.com
To: AB7AA
Source: SMTP
Subject: Re: //WL2K Additional Information

Tips For Better Connections

- Antennas! Antennas! Antennas!
- XCVR Frequency Alignment
- Adjust Xmit Audio For Maximum Power Output With No ALC Action
- 500 Hz Modes Give ~6 DB S/N Advantage
- Match Receive Filter To Signal Bandwidth



Tips For Better Connections (Continued)

- Use RMS Express Recommended Freqs
- Use Fast-Medium AGC
- Do Not Use DSP, Notch Filter, NB, etc.
- Bundle Messages VS Sending Individually
- Listen Before Connecting!!! (Except Packet)



Winlink EMCOMM Coverage

- With Local Internet
 - Enhanced Comm Center Communications
 - Local Cell Phone Alerting/Messaging
- Without Local Internet
 - All WL2K Features Outside Affected Area
- Without CMS's or Global Internet
 - Global Hybrid Mesh Radio Network
 - Only DODI 4650.02 Compliant Network



Questions?



Packet Session (digipeat Via)

RMS Express 1.3.5.0 - AB7BB

AB7BB Files Message Attachments Move To: Saved Items Delete Open Session: Packet WL2K Logs Help

In Packet WL2K session.

	Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
	2015/08/31 ...	MXE36C2IR...	1310	SMTP	SMTP:billhic...	AB7AA	test2
	2015/08/31 ...	G6PHS4BV...	1342	SMTP	SMTP:billhic...	AB7AA	test
	2015/03/08 ...	0VDB9PLZ...	362	N7INK	N7INK	AB7AA	//WL2K Second test
	2015/03/08 ...	884PGF5H1...	346	N7INK	N7INK	AB7AA	//WL2K radio config. Issue
	2015/03/08 ...	1XYJ4UP19...	1131	N7NYG	N7NYG	K7RDG	//WL2K 1745 GARDNER CANYON
	2015/03/01 ...	WRJVFYME...	188	K7BUM	K7BUM	AB7AA	//WL2K Test Message
	2015/03/01 ...	F1AYQSVA...	159	AB7AA	AB7AA	AB7BB	//WL2K test

System Folders: Inbox (0 unread), Read Items (0), Outbox (0), Sent Items (112), Saved Items (0), Deleted Items (0)

Personal Folders

Global Folders

Contacts: 5202414405@bt.att.net, 5202477607@bt.att.net, 5204815477@tmomail.net, 5205085636@myvzw.com, 5205085636@vtext.com, 5205763087@messaging.sprint, 5205763087@tmomail.net, 5205763087@bt.att.net, 5205763087@vtext.com, 5207436117@email.uscc.net, 5207436117@bt.att.net, 5207436117@vtext.com, 5209548779@vtext.com, 5209548779@vtext.com

Packet Winlink 2000 Session

Exit Setup Switch to Peer-to-Peer Session Channel Selection ---- Baud Start Stop

Connection type: Digipeater AB7AA-10 Via TUS1

Connection script: Edit script Add script Remove script

Time to next Autoconnect = Disabled

*** Starting WL2K packet session...
*** Initializing Kenwood TH-D7/D72 A-Band; port COM3; 9600 baud
*** Initialization failed - *** Failed to open serial port on COM3. Port may be in use by another application.

6:43 PM 9/28/2015

“What We Owe the Amateur Service”- Riley Hollingsworth (OVARC June 2014)

- “...It’s impressive that a technical organization such as the ARRL has lasted 100 years...”
- “...Many have said that interest in amateur radio would die because of the Internet...”
- “...We hams have incorporated the Internet into our hobby, further enhancing it...”
- “...**Our challenge is to make amateur radio last another 100 years...**”



MARS Winlink

The image shows a screenshot of a web browser window displaying a map of the United States. The browser's address bar shows the URL <http://www.winlink.org/>. The browser's menu bar includes File, Edit, View, Favorites, Tools, and Help. The browser's taskbar shows several open tabs: Live System Inf..., Ionospheric Physic..., NGDC/STP - Ionos..., and Michigan Football ... The taskbar also displays the system clock as 1:07 PM on 9/30/2015. The map shows the United States with several green location pins placed on various states, including Washington, California, Texas, Florida, and the Northeast. The map also shows parts of Canada, Mexico, and the Caribbean Sea.

Critical Systems Reliability

- High Mean Time of Failure Components
- Multiple Redundancy
- **Automated System Reconfiguration after Component Failures**
- **Graceful Degradation of Capabilities after Multiple Component Failures**



Forward Error Correction (FEC)

- Transmissions are Encoded to Provide Multiple Redundancy of the Message
- Transmission is only Slightly Longer Than Original
- Errors Resolution Attempted by Receiver Decoding (On the Fly)
- Can Be Combined With Acknowledge Request (ARQ)



Automatic Repeat ReQuest Modes (ARQ)

- Individual Station to Individual Station Transmission (Handshaking)
- 100% Error Free
- Enables Automation (Files, Routing, and More..)
- Examples
 - Packet
 - Winmor
 - Pactor
 - Others



Ultimate Digital Speed

- Shannon Limit (Bits per Second)
 - Bandwidth
 - Signal to Noise Ratio
 - Acceptable Bit Error Rate



SHARES Winlink Network

The screenshot shows a web browser window displaying a map of North America. The address bar shows the URL <http://www.winlink.org/>. The browser has multiple tabs open, including "Live System Inf...", "Ionospheric Physic...", "NGDC/STP - Ionos...", and "Michigan Football...". The browser's menu bar includes "File", "Edit", "View", "Favorites", "Tools", and "Help".

The map displays the United States and parts of Canada and Mexico. Numerous green location pins are scattered across the map, indicating the locations of Winlink Network nodes. Major cities like Seattle, San Francisco, Los Angeles, San Diego, Chicago, Toronto, and New York are labeled. The map also shows state and provincial boundaries and names.

At the bottom left of the browser window, the Google logo and coordinates "29-59.58N / 054-45.35W -- [GL290X] -- [21R 716485 3320130]" are visible. The system tray at the bottom left shows the time as "1:16 PM" and the date as "9/30/2015".